

# DIY WEATHER VANE

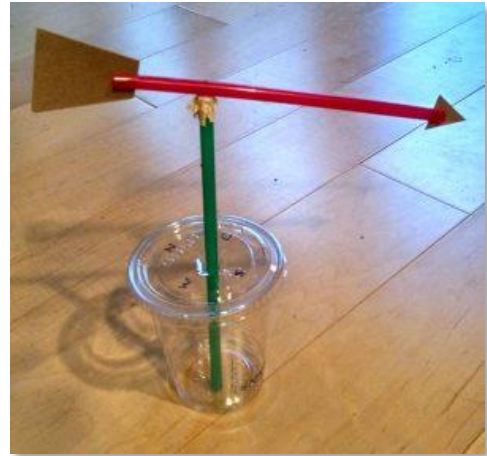
Find out how to make your own weathervane to help you predict the weather!

## BEFORE YOU GET STARTED

**Estimated Time:** 30 minutes

### Stuff you'll need:

- Plastic cup with straw lid
- 2 Plastic straws (straight, not bendy)
- Cardstock (TIP: Use a cereal box)
- Thick Tape (duct tape, masking tape, etc.)
- Sewing pin
- Marker



**Parent/Guardian Considerations:** Girls should ask permission before using any materials.

## THE FUN PART

1. Label the cup lid with North, South, East and West around the hole for the straw. Place the lid on the cup.
2. Insert one straw into cup through the lid's straw hole. It is important that the straw stands straight up. If your cup lid pushes the straw at an angle, try taping the straw to the bottom of the cup or around the straw hole. Place a piece of tape over the top of the straw.
3. Cut slits on each end of the second straw about a ½ inch deep.



4. Cut out an arrow and a flag from cardstock or lightweight cardboard, such as a cereal box. Print the included template, cut it out, then trace on the cardstock. If you don't have a printer, use the template as a guide to draw the shapes yourself.

5. Slide the arrow in one of the slits of the straw. Slide the flag in the slit on the other end.
6. Balance the straw on your finger to find its center of gravity. It should be a couple of inches from the flag end. Mark this spot with a marker.
7. With an adult's help, poke the pin through the straw's center of gravity. Now poke that pin through the tape on the straw of your base. The straw should be able to spin freely.
8. To use your weathervane, put it outside in the wind. Pour some water in the bottom of the cup for stabilization. Turn the cup so that the "N" on the cup points to the North.
  - When the wind moves the weathervane, it will tell you what direction the wind is coming FROM.
  - Based on where the wind is coming from, you will be able to predict the weather:

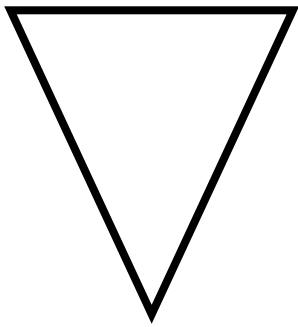
| Direction the Wind is Coming From | Weather Prediction      |
|-----------------------------------|-------------------------|
| North                             | Weather will get colder |
| South                             | Weather will get warmer |
| East                              | Rain or snow is coming  |
| West                              | Weather may be clear    |

Way to go! You did it!

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# Flag and Arrow Template

ARROW



FLAG

